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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,157	06/27/2003	Hai Jiang		7873
	590 04/20/2005		EXAMINER	
Hai Jiang 46710 Crawford St. #6			LUU, PHO M	
Fremont, CA 94539			ART UNIT	PAPER NUMBER
			2824	
·			DATE MAILED: 04/20/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			11.19			
	Application No.	Applicant(s)				
	10/609,157	JIANG, HAI				
Office Action Summary	Examiner	Art Unit				
	Pho M. Luu	2824				
The MAILING DATE of this communication apperiod for Reply		·				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (5) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuth Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		be timely filed) days will be considered timely. from the mailing date of this communic ONED (35 U.S.C. § 133).	eation.			
Status						
1) Responsive to communication(s) filed on						
·=	is action is non-final.		_			
·	-					
closed in accordance with the practice under	Ex parte Quayie, 1935 C.D. 11	, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 21-31 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 21-31 are subject to restriction and/o	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examin	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by t	he Examiner.	•			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
,	:xaminer. Note the attached On	JICE ACTION OF TORM PTO-152	۷.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic ority documents have been rece au (PCT Rule 17.2(a)).	cation No eived in this National Stage	:			
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summ Paper No(s)/Ma					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		nal Patent Application (PTO-152)				

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DETAILED ACTION

1. This office action acknowledges receipt of the following items from the Applicant:

- -Supplemental Response to restriction filed on 2/04/05.
- -Claims 1-20 had been canceled.
- -Claims 21-31 are newly added.
- -Claims 21-31 are pending in the application.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 21-27, drawn to a phase change memory device, classified in class 365, subclass 148.
 - II. Claims 28-31, drawn to a programming metallization cell memory (PMCm), classified in class 365, subclass 153.
- 3. The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention II has separate utility such as claims do not require thin metal layer. See MPEP § 806.05(d).
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. A telephone call was made to Hai Jiang on 11 April 2005 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Pho M. Luu whose telephone number is 571.272.1876. The examiner can normally be reached on M-F 8:00AM – 5:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Richard Elms, can be reached on 571.272.1869. The official fax number for

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the organization where this application or proceeding is assigned is 703.872.9306 for all official communications.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PML

11 April 2005